INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/04748

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F25B 9/00; F16K 39/00, 5/00 US CL : 62/6; 251/283, 314			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 62/6; 251/283, 314			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) None			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	Relevant to claim No.	
Y	US 5,878,580 A (SCHILLING et al) 09 March 1999 (09.03.1999), see entire document 1-11 especially figures.		
Y	US 6,434,947 B2 (Zhu et al) 20 August 2002 (20.08.2002), see entire document.		1-11
Y	US 5,974,807 A (GAO et al) 02 November 1999 (02.11.1999), see entire document.		1,2 and 4-11
A	US 6,460,349 B1 (KAWANO et al) 08 October 2002 (08.10.2002), see entire document.		1-11
Α	US 2003/0089116 A1 (HERON) 15 May 2003 (15.05.2003), see entire document.		1-11
A	US 5,711,156 A (MATSUI et al) 27 January 1998 (27.01.1998), see entire document.		1-11
A	US 6,378,312 B1 (WANG) 30 April 2002 (30.04.2002), see entire docuement.		1-11
Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:		"T" later document published after the inte	
"A" document defining the general state of the art which is not considered to be of particular relevance.		date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
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"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search		Date of mailing of the international sear	rch report
16 May 2005			
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